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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

Application Number 09/448,371  
Filing Date 23 November 1999  
First Named Inventor Mark A. Shadle  
Group Art Unit 1745  
Examiner Name Unknown **MAPLES**  
Attorney Docket Number

Sheet 1 of 3

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	U.S. Classification (Primary Class/Subclass)
		Number	Kind Code <sup>2</sup> (if known)			
J		2,688,649		Bjorksten	09-07-1954	136/111
		3,006,980		Story	10-31-1961	136/6
		3,209,255		Estes et al.	09-28-1965	324/94
		3,230,115		Tamminen	01-28-1966	136/111
		3,607,430		Glover	09-21-1971	136/111
		4,153,345		Duchene et al.	05-08-1979	350/363
		4,161,815		Land et al.	07-24-1979	29/623.4
		4,539,275		Plasse	09-03-1985	429/152
		4,614,695		Ibbott	09-30-1986	429/127
		4,664,993		Sturgis et al.	05-12-1987	429/178
		4,804,275		Kang et al.	02-14-1989	374/162
		5,035,965		Sangyoji et al.	07-30-1991	429/124
		5,055,968		Nishi et al.	10-08-1991	361/395
		5,147,985		DuBrucq	09-15-1992	174/260
		5,225,291		Rao	07-06-1993	429/51
		5,250,905		Kuo et al.	10-05-1993	324/435
		5,339,024		Kuo et al.	08-16-1994	324/435
		5,350,645		Lake et al.	09-27-1994	429/124
		5,396,177		Kuo et al.	03-07-1995	324/435
		5,418,086		Bailey	05-04-1995	429/93
		5,495,250		Ghaem et al.	02-27-1996	342/51
		5,542,959		Tuttle	08-06-1996	29/623.3

## FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

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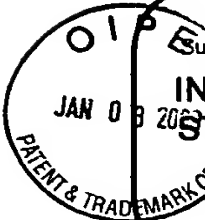
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<div style="text-align: center;">  <p>Substitute for form 1449A/PTO</p> <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="font-size: small;">(use as many sheets as necessary)</p> </div>	<b>Complete if Known</b>	
	Application Number	09/448,371
	Filing Date	23 November 1999
	First Named Inventor	Mark A. Shadle
	Group Art Unit	1 7 4 5
	Examiner Name	Unknown <b>MAPLES</b>
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		Number	Kind Code <sup>2</sup> (if known)			
		5,563,002		Harshe	10-08-1996	429/7
		5,627,472		Ofer et al.	05-06-1997	324/435
		5,635,312		Yanagisawa et al.	06-03-1997	429/94
		5,637,418		Brown et al.	06-10-1997	429/127
		5,652,043		Nitzan	07-29-1997	428/209
		5,656,393		Boer et al.	08-12-1997	429/217
		5,763,058		Isen et al.	06-09-1998	428/209

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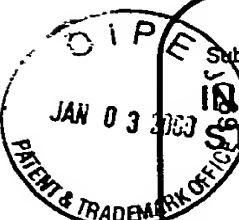
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